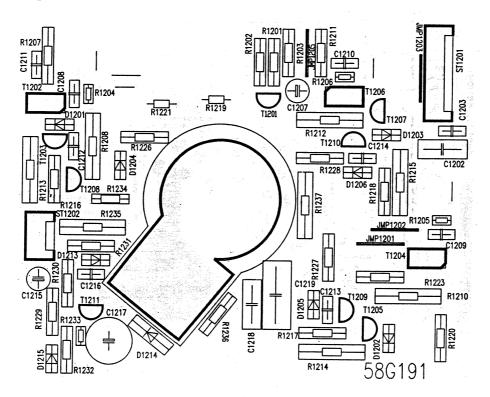
CHASSIS 10.3

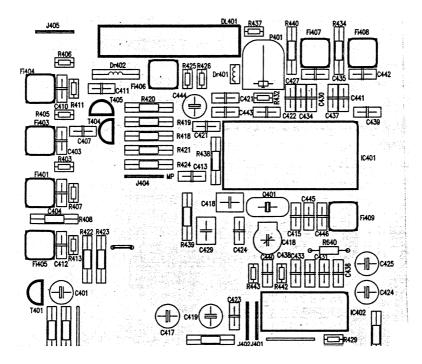
MODEL

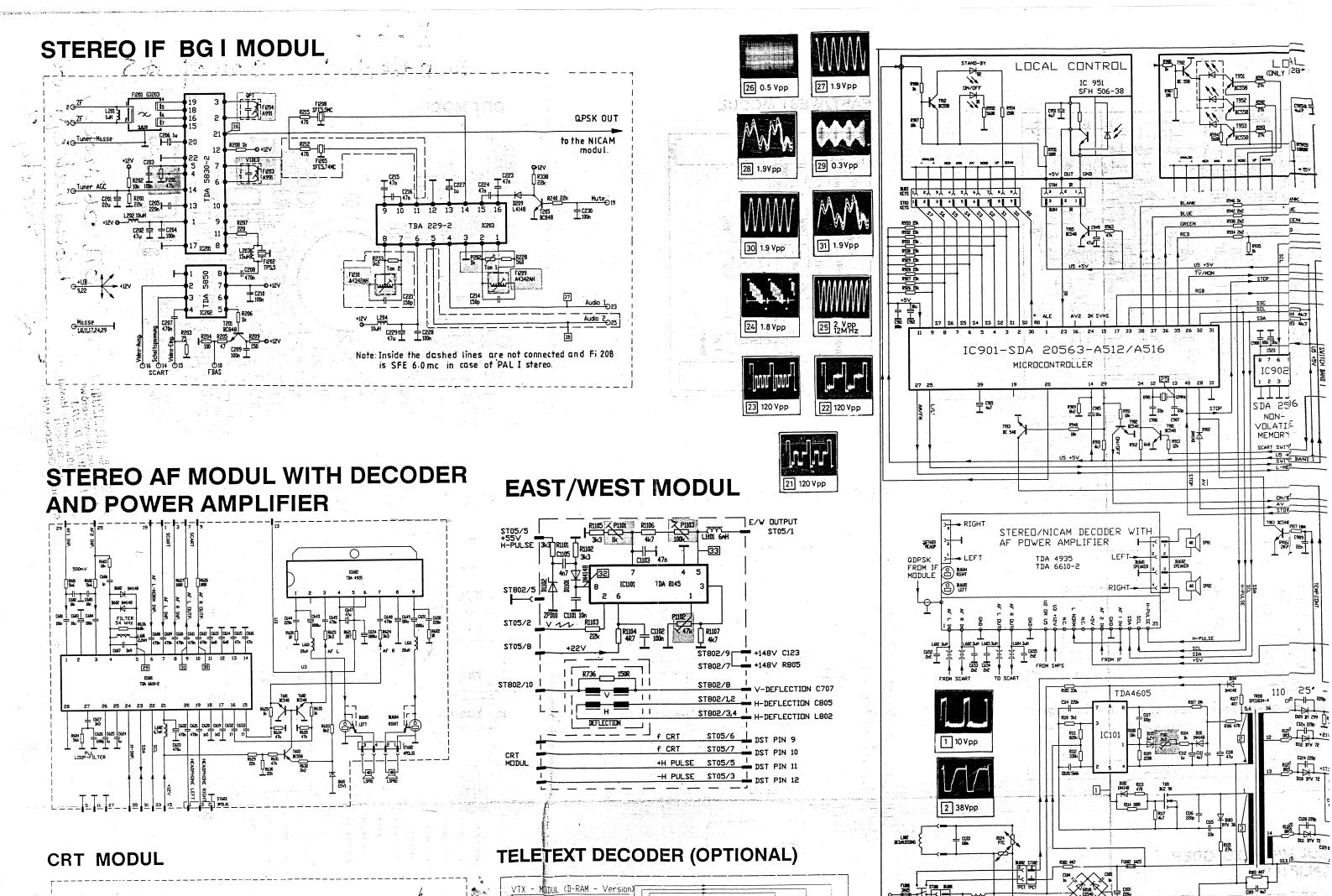
SERVICE MANUAL

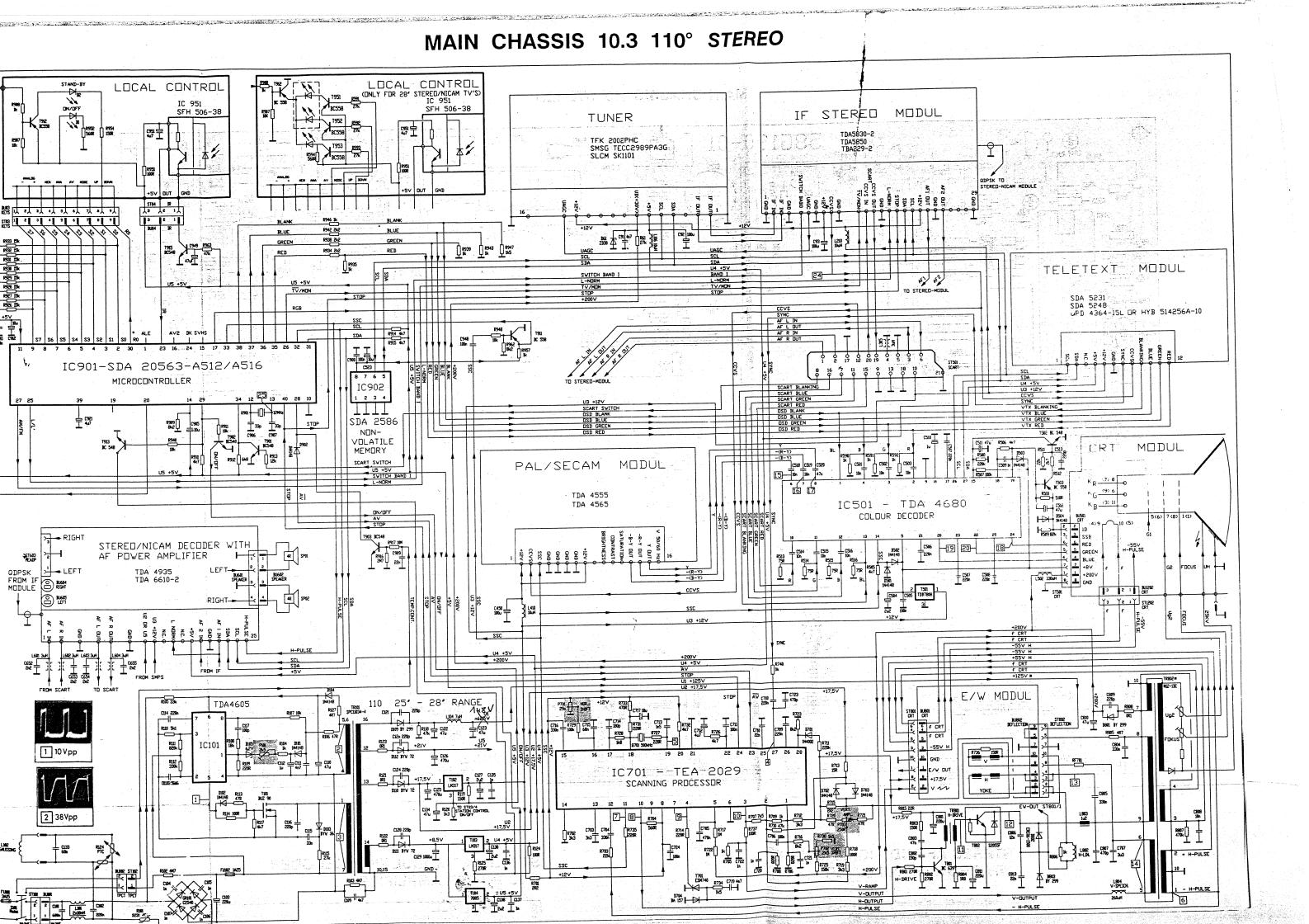
CRT MODUL

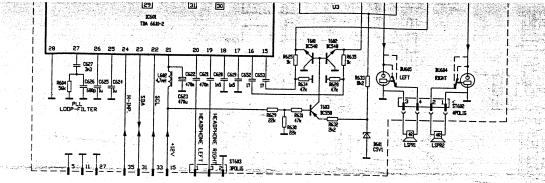


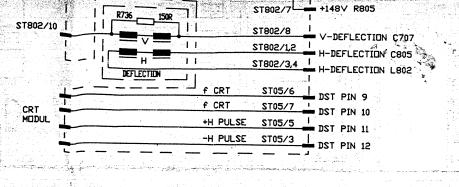
PAL/SECAM DECODER

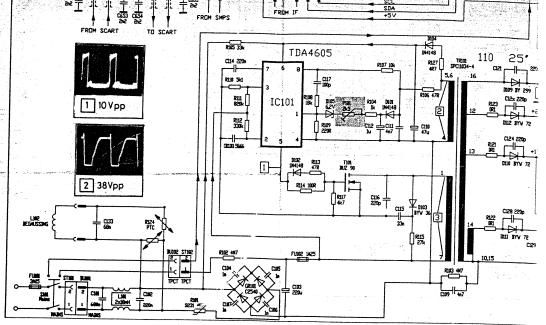




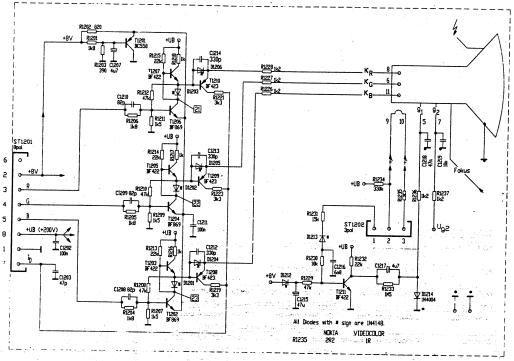




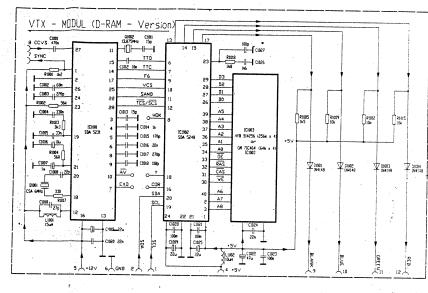




CRT MODUL







PAL BG STEREO / SEC LL' MONO IF

1.5 Vpp 5 0.12Vp

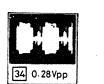












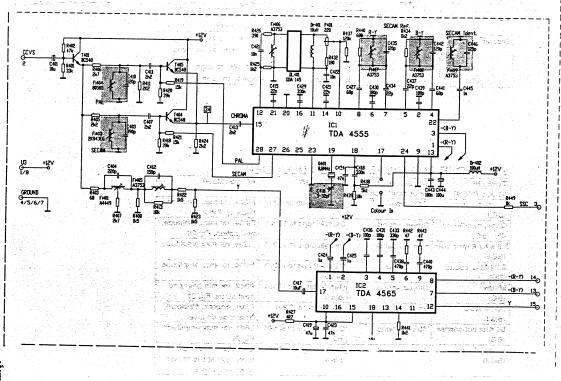


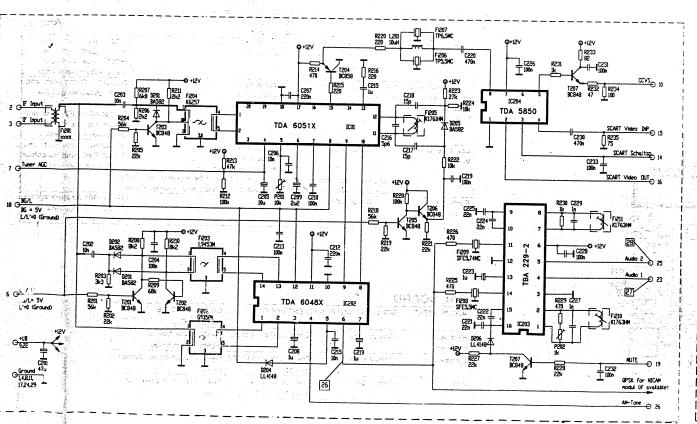
STEREO AF AND NICAM I

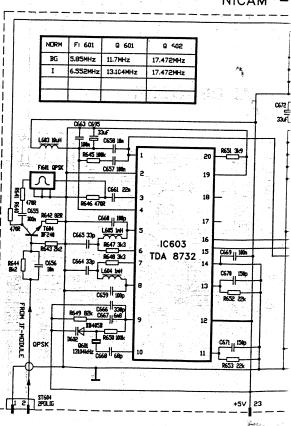
(Not used when stereo AF modul

NICAM -

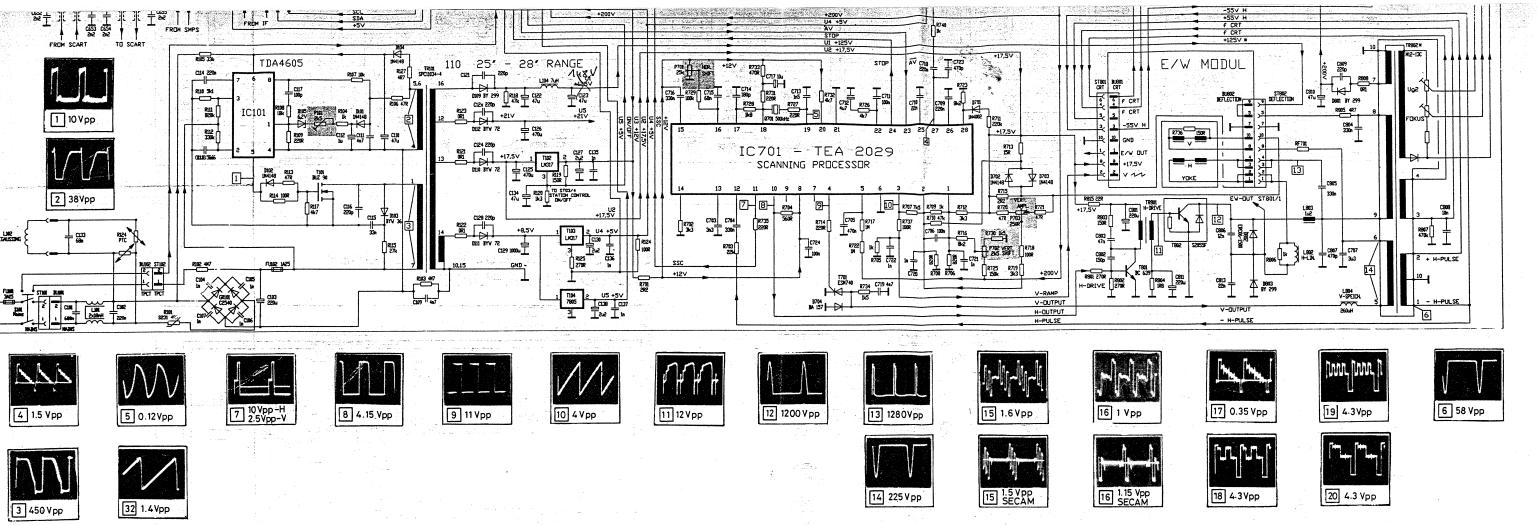
PAL/SECAM DECODER







58 G 821-01

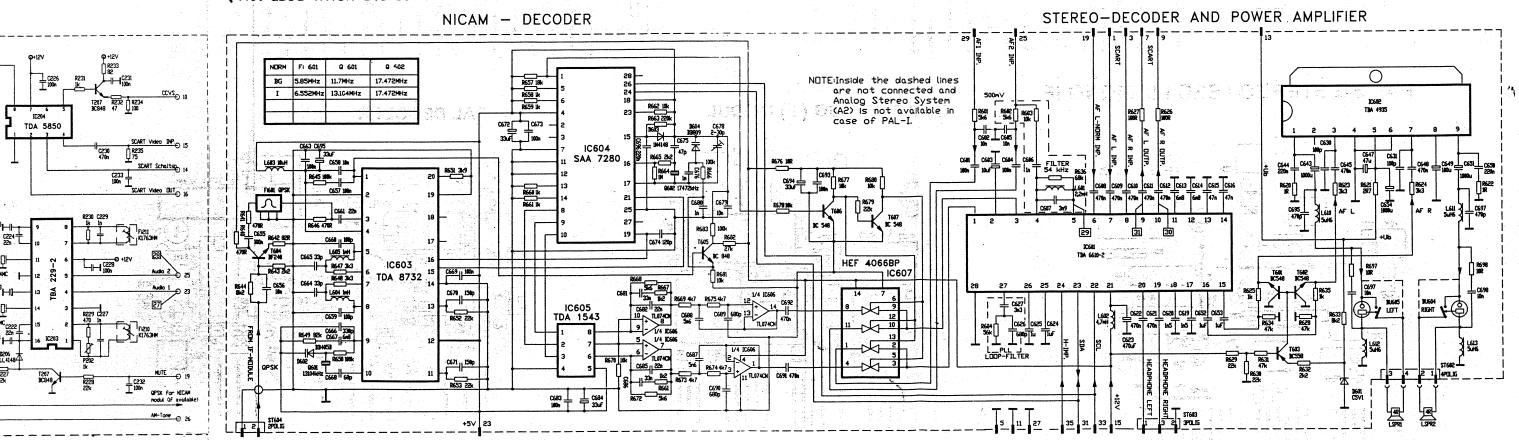




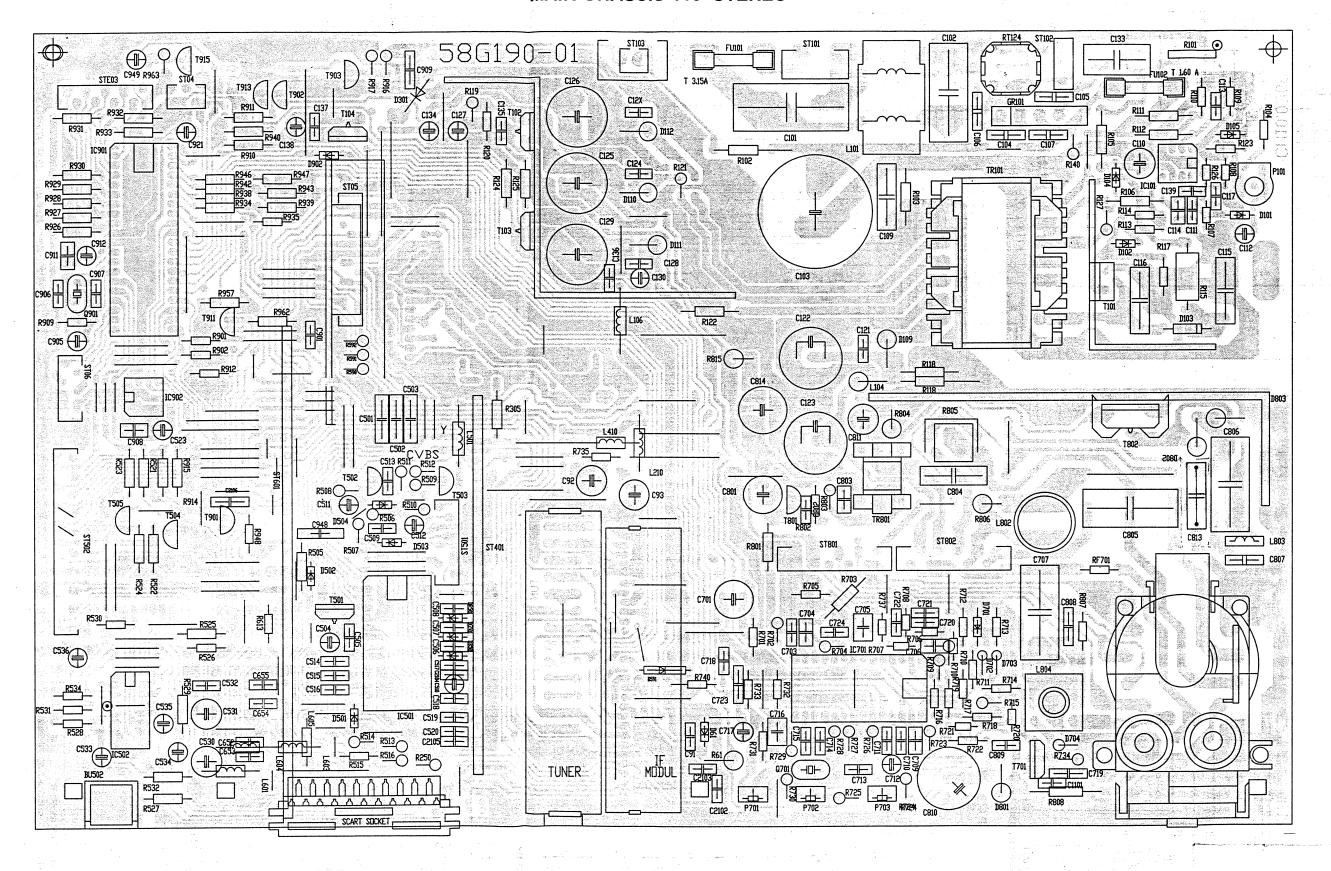


STEREO AF AND NICAM MODUL WITH POWER AMPLIFIER (OPTIONAL)

(Not used when stereo AF modul with Decoder is available.)



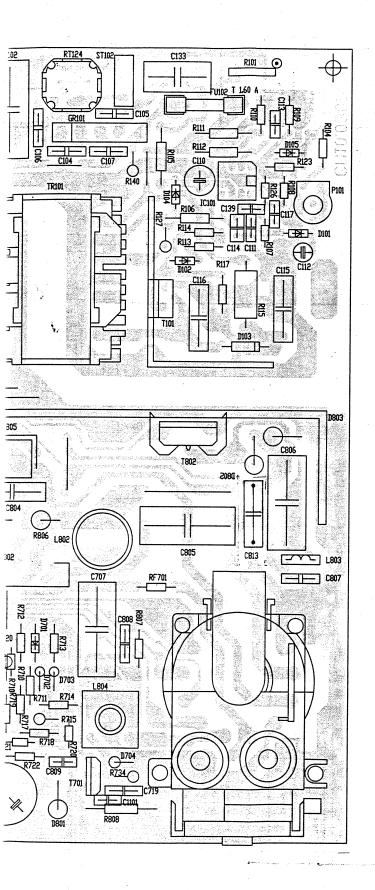
MAIN CHASSIS 110° STEREO



STEREO AF AND NICAM MODUL WITH POWER AMPLIFIER

STEREO AF MODUL WITH DECODER AND POWER AMPLIFIER

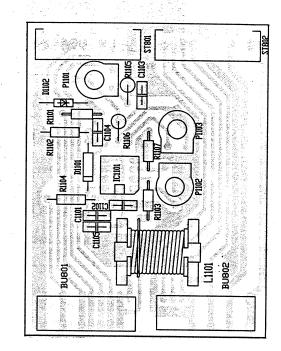




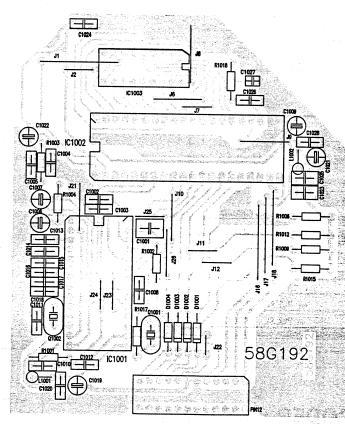
UL WITH DECODER ²LIFIER



EAST/WEST MODUL

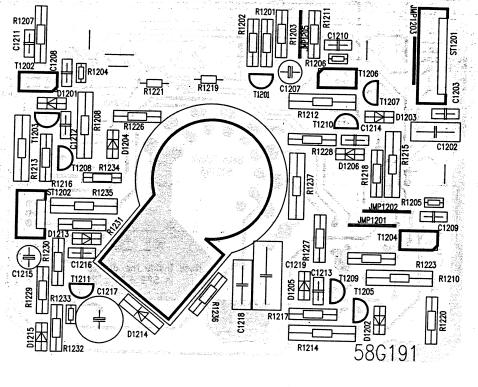


TELETEXT DECODER (OPTIONAL)

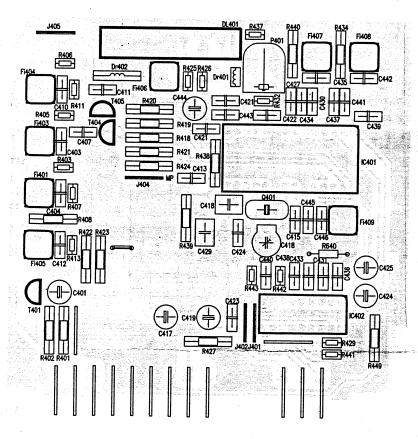


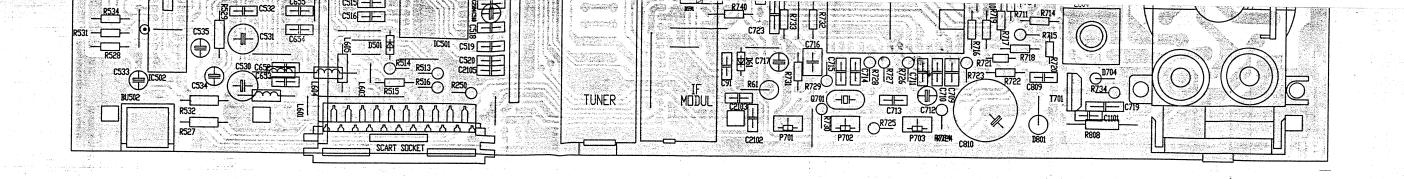
Bekolectuik Sanaj AS

CRT MODUL

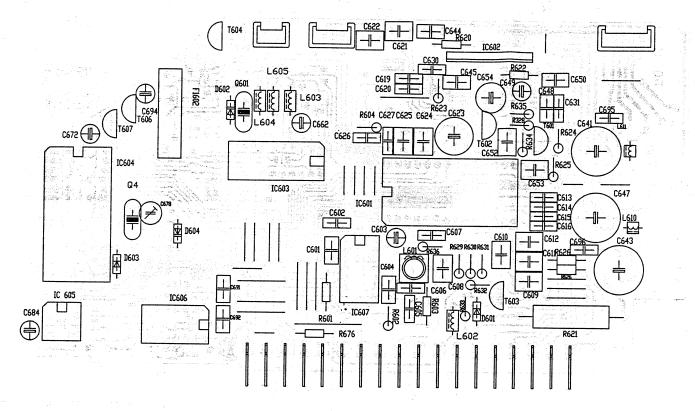


PAL/SECAM DECODER

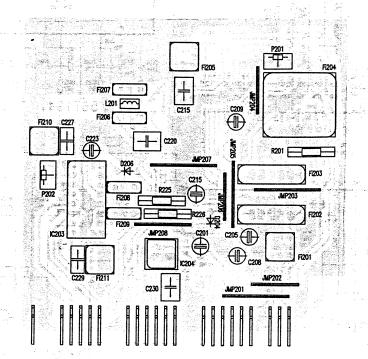




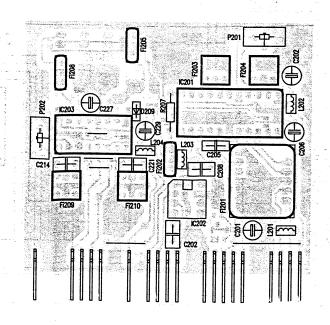
STEREO AF AND NICAM MODUL WITH POWER AMPLIFIER



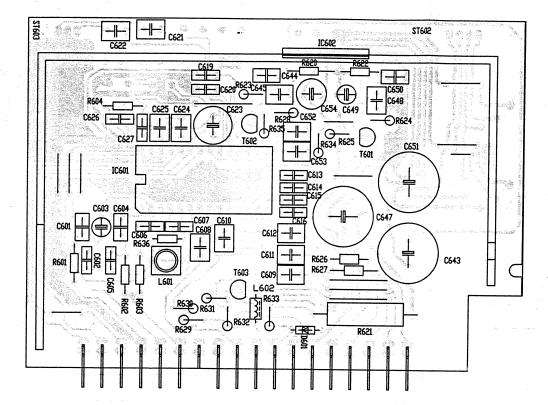
PAL BG STEREO / SEC LL' MONO IF



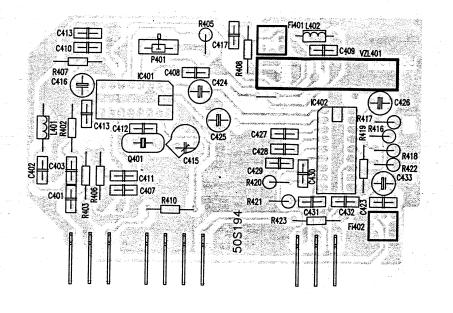
STEREO IF BG (I) MODUL

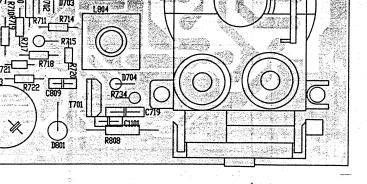


STEREO AF MODUL WITH DECODER AND POWER AMPLIFIER

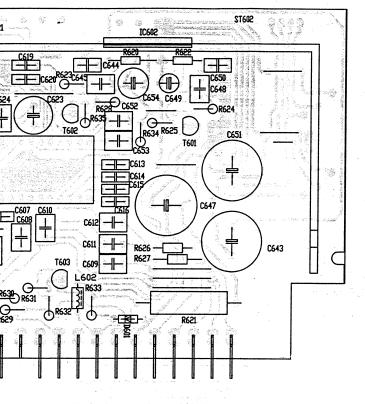


PAL DECODER

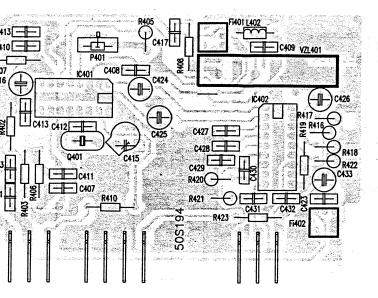


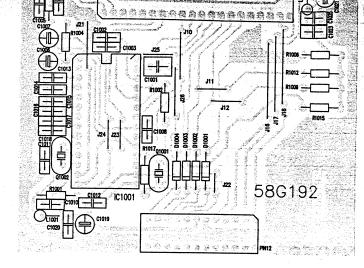


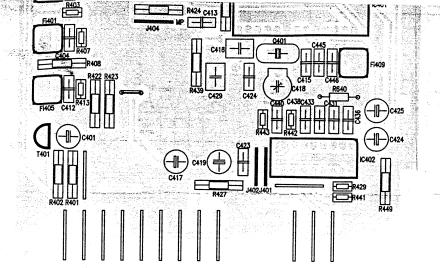
UL WITH DECODER PLIFIER



PAL DECODER







SERVICING OF THIS TV SHOULD ONLY BE CARRIED OUT BY A QUALIFIED PERSON

Short C103 before changing IC101, T101 or any other component in primary side of smps.
Oscillascope traces are measured at antenna signal 1mV from colourbar generator.

approx. 5 minutes.
All controls are indicated in the circuit diagram.

TYPE OF ADJUSTMENT	Signaal at Antenna input 1mV/75ohms	PREPARATION	CONNECTION OF INSTRUMENT	ADJUSTMENT
U1 Voltage		Beam current zero (Bright.,Contr.,Colour levels at min.)	Voltmeter to D109 cathode	Use P101 tổ adjust for 148Vdc.
Screen		Bright., Contr., Colour levels at min.P501 mid P1201, P1202, P1203 at mid range. AV position is selected.	Voltmeter to T1204 collector	Adjust the Screen grid pot to read 158V
Geometrical	FuBK test pattern or Centre Cross with Circle	Bright., Contr., Colour at normal.		P701, adjust horiz. shift P702, adjust Vert. shift P703, adjust Vert. ampl. L801, adjust Horiz.ampl.
White balance.(Normaly white balance should e adjusted with Colour Analyzer.)	White pattern	Colour at min Brihtness at mid. Contrast at max		Adjust the P1203 (Red) an P1201 (Blue),so that the best white picture available Do not adjust P1202(Greer cause it is already adjust in screen adjustment.
Low level white balance. High and because	Colour bar I low level white balan of the inter action of t	Colour at min. Brightness at mid. Contrast near to min. ce adjustments have to l	be repeated once m	Adjust the P1204(blue) an P1205(Red), until no color influences grey scale. ore,
East-West pincushion.	Cross hatch			Use P1101 for Horz, apl.ac Use P1102 for trapez, adj. Use P1103 for E-W ampl.ad

PAL BOARD

ADJUSTMENT	SIGNAL AT ANTENNA	TEST POINTS	CONTROL TO BE
Reference oscillator	Colour bars	Connect the A jumper	
Luminance	Colour bars	Oscillascope to IC402 pin 12	Fi402, reduce colour carrier to min.
PAL		Oscillascope to R1204 on CRT board.	Fi401, reduce the gaps at peaks.

PAL/SECAM BOARD

ADJUSTMENT	SIGNAL AT ANTENNA	TEST POINTS	CONTROL TO BE
			ADJUSTED
Pal	Colour bars- PAL	Oscillascope to T405	Use Fi404, to adjust colour
		emitter.	carrier max value.
Reference	Colour bars- PAL	Connect the jumper	C420, colour flow is
oscillator		(IC401 pin 17 ground)	minimized on screen.
Luminance	Colour bars- PAL	Oscillascope to	Fi401, reduce colour
		R1204 on CRT board	carrier to min.
Chroma	Colour bars- SECAM	Oscillascope to T404	Use Fi403, for equal
		emitter.	amplitude of two
			successive lines.
Secam	Colour bars- SECAM	Voltmeter with High	Use, Fi409, to adjust the
identification		intern.resistance to	potantial difference to its
		IC401 pin 21.	max value.
Colour trap	Colour bars- SECAM	Oscillascope to	Use Fi405, to minimize
		IC402 pin 12.	colour carrier.
Discriminator	Colour bars- SECAM	Oscillascope to	Use Fi407, to align the wave
-		IC402 pin 8.	shape to the same level.
		Oscillascope to	Hoo Eidos to alleg the
100	14.	IC402 pin 7.	Use Fi408, to align the wave
	4	10402 pii1 7.	shape to the same level.

STEREO IF	AND NICAM/S	TEREO DECOD	ER
TYPE OF ADJUSTMENT	Signal at Antenna input 1mV/75ohms	TEST POINT	ADJUSTMENT
IF video carrier. (BG,I)	Colour bars	Oscillascope to R207	Fi203, for max ampl. and linearity. Fig 24
Quasi parallel soun		Oscillascope to IC201 pin 21	Fi204, for min amplitude. modulation. Fig 26
5.5 Mhz/6 Mhz sou (BG/I)	Stereo sound	Oscillascope to IC203 pin 4	Fi209, for max amplitude.
5.74 Mhz sound. (BG)	Stereo sound	Oscillascope to IC203 pin 5	Fi210, for maz amplitude.
Matrix (BG)	Stereo sound	Oscillascope to IC601 pin 9	P202, for min beat and best sinus. Fig 31
Tuner AGC (BG,I)	Band III VHF	Voltmeter to IC201 pin 14	P201, approx. 1V down from max dc level
54 Khz subcarrier (BG)	Stereo sound	Oscillascope to IC601 pin 5	L601, for max amplitude Fig 29
Nicam decoder (BG,I)	Nicam sound	Oscillascope to IC601 pin 1	C678, for exactly DC level right at the center of square wave.